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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/943,318	08/31/2001	James Norman Cawse	rd-28,249	8731
6147	7590 09/30/2003			
GENERAL ELECTRIC COMPANY			EXAMINER	
GLOBAL RESEARCH CENTER PATENT DOCKET RM. 4A59			MORAN, MA	ARJORIE A
PO BOX 8, BI	LDG. K-1 ROSS A, NY 12309		ART UNIT	PAPER NUMBER
			1631	
			DATE MAILED: 09/30/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/943,318	CAWSE, JAMES NORMAN					
Office Action Summary	Examiner	Art Unit					
·	Marjorie A. Moran	1631					
The MAILING DATE of this communication app							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a within the statutory minimum of thi vill apply and will expire SIX (6) MO, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 31 A	August 2001 .						
2a) ☐ This action is FINAL . 2b) ☐ Th	is action is non-final.						
3) Since this application is in condition for allows closed in accordance with the practice under							
Disposition of Claims 4)⊠ Claim(s) <u>1-32</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdraw							
5) Claim(s) is/are allowed.	WITHOUT CONSIDERATION.						
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8)⊠ Claim(s) <u>1-32</u> are subject to restriction and/or e	election requirement.						
Application Papers	·						
9)☐ The specification is objected to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected to by	the Examiner.					
Applicant may not request that any objection to the	= : :						
11) The proposed drawing correction filed on		disapproved by the Examiner.					
If approved, corrected drawings are required in rep	-						
12) The oath or declaration is objected to by the Exc	aminer.						
Priority under 35 U.S.C. §§ 119 and 120		S 440(a) (d) == (f)					
13) Acknowledgment is made of a claim for foreign	i priority under 35 U.S.C.	9 119(a)-(d) or (t).					
a) All b) Some * c) None of:	have been received						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International But * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C	§ 119(e) (to a provisional application	า).				
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesting 	• • • • • • • • • • • • • • • • • • • •						
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-25, drawn to a method to selecting a best case set of factor levels of a catalyzed chemical reaction, classified in class 702, subclass 19.
- Claims 26-30, drawn to a system for investigating a catalyzed experimental space, classified in class 700, subclass 1.
- III. Claims 31-32, drawn to a method of determining whether a set of factor levels is a significant set, classified in class 702, subclass 19.

The inventions are distinct, each from the other because of the following reasons:

Inventions II is related to Inventions I and III as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, although the product of Group II is not specifically limited to be for use in running a particular method, the limitations of the system render it useful for running either of the methods of Groups I and III.

Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions recite different method steps and are directed to

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different results. In addition, either method maybe performed without knowledge of or reference to the steps or results of the other method.

Because these inventions are distinct for the reasons given above and the search required for any one Group is not required for any other Group, restriction for examination purposes as indicated is proper.

Species Election

This application contains claims directed to the following patentably distinct species of the claimed invention:

- (A) a space definition: (1) Graeco-Latin square, (2) Hyper-Graeco-Latin square,(3) Youden square, (4) Latin square;
- (B) a type of analysis of result: (1) analysis of variance, (2) Percent of Variance Explained, (3) Tukey Simultaneous Tests, (4) by determining ratios of mean values of results and standard error and determining statistical differences.
 - (C) a catalyst, as set forth in claims 22-25.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from group (A) AND group (B) AND group (C) above for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 6-7, 9-10, and 15-21 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

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is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marjorie A. Moran whose telephone number is (703) 305-2363. The examiner can normally be reached on Monday to Friday, 7:30 am to 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (703) 308-4028. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3524.

MARJORIE MORAN

PATENT EXAMINER

mam